I claim:

1.   A method of determining air humidity with a capacitive moisture measuring element, comprising:

a method step in which a current moisture signal is ascertained from electrical

5   properties of the moisture measuring element, and

a method step in which a corrected moisture signal is calculated from the current moisture signal, wherein in a measuring phase with rising relative air humidity RH the corrected moisture signal is the current moisture signal increased by a correction value a(RH) and wherein in a measuring phase with falling relative air

10   humidity RH the corrected moisture signal is the current moisture signal reduced by a correction value a(RH).

2. A method as set forth in claim 1, wherein the correction value a(RH) is constant.

15

3. A method as set forth in claim 1, wherein the correction value a(RH) is used from a stored table or is calculated as a mathematical function.

4. A method as set forth in claim 1, wherein charging and/or discharging the

20   capacitive moisture measuring element by way of a first measuring resistor provides for ascertaining a first time constant or a first period duration of the charging and/or discharging operation, and charging and/or discharging the moisture measuring element by way of a second measuring resistor, whose value is different from the value of the first measuring resistor, provides for ascertaining a second time constant or a

25   second period duration of the charging and/or discharging operation.

5. A method as set forth in claim 4, wherein the capacitance of the moisture measuring element is calculated from the two time constants or the two period durations, and the moisture measuring element for the calculation operation is

30   modelled by a parallel circuit of an ideal capacitor and an ohmic resistance.

6. A method as set forth in claim 4, wherein the ohmic resistance value of the moisture measuring element is calculated from the two time constants or the two period durations, and the moisture measuring element for the calculation operation is modelled by a parallel circuit of an ideal capacitor and an ohmic resistance.

5

7. A method as set forth in claim 1, wherein the current moisture signal is ascertained with the capacitance of the moisture measuring element.

8. A moisture sensor comprising a capacitive moisture measuring element and a correction unit with means for carrying out the method as set forth in claim 1.

10

9. A moisture sensor as set forth in claim 8, further comprising a signal processing unit connected to the moisture measuring element with means for carrying out the method as set forth in claim 4.

15

10. A moisture sensor as set forth in claim 8, further comprising a monitoring unit by which a certain deviation in an ohmic resistance value of the moisture measuring element over a relatively long period of time can be detected and signalled.

20